

EMERGENCY
COMMUNICATIONS
PUBLIC SERVICE
EXPERIMENTATION
INFORMATION
EDUCATION

P.O. Box 30529

Cleveland, Ohio 44130

Emergency Communications
for:

COUNTY OF
CUYAHOGA



Div. of
Emergency Assistance & Planning

Not for profit Ohio corporation tax-exempt under IRS Section 501(c)(3)

North Coast Communicator

Code Practice

Sundays @ 20:00 on 145.29
6,9,13,16,20,24WPM

Informal Voice Nets

Sundays @ 21:00 on 145.29
Saturdays @ 10:00 on 28.4

SEPTEMBER 1987

VOLUME 4, NUMBER 5

STEVE STROH N8GNJ EDITOR

SEPTEMBER MEETING WILL BE ON 1ST WEDNESDAY

Well, in case this newsletter actually makes it to some members before the meeting, please remember that the September 1987 meeting will be on Wednesday, September 2, 1987. This change is effective for this meeting only; the meeting room at the library was not available on September 3 which would have been the usual date.

SORRY THIS IS LATE...

The new editor (see below) sincerely apologizes for the tardiness of this issue of the Communicator. I have never edited a newsletter the size of the Communicator before and the process of assembling it took a lot longer than I had anticipated (I was hoping to have it mailed in time to be received before the meeting, but it ended up being delivered to Rick early in the week of August 31). Now that I know, it shouldn't happen again.

NEW EDITOR OF THE COMMUNICATOR

Rick KB8CI has passed the editorship of the Communicator over to me because of increasing demands on his time. I had previously expressed interest in helping with the editing chores, so having volunteered, I was tapped. Rick has graciously volunteered to continue handling the publishing chores of the Communicator for the near future, including printing, binding, and mailing, which I greatly appreciate. I will do my best to live up to the high standards that Rick has set for this newsletter. Please make sure any submissions are sent to me directly; please don't put Rick or anyone else in the position of being responsible for passing submissions on to me. You can send submissions to me in several ways: at my home address- 917 Salem Avenue, Elyria 44035, via the KB8CI Packet BBS on 145.01 (from W8GRG's BBS on 145.05 simply send it to me using the command SP N8GNJ @ KB8CI), or on the Hamnet landline BBS at 942-6382. I'm not currently active on the BARF 80 landline BBS, but plan to check it out in the near future. Of course feel free to call me on the 5.29 repeater or call me on the landline at 365-2793 (long distance from Cuyahoga County of course).

One of the things that I've wished the Communicator had was a Letters To The Editor column. There have been a lot of things within the club that have generated controversy in the last few months such as the fundraising effort, the decision to attempt to build a North Coast 220 repeater, Sunshine policies, and operating policies of the repeater are just a few of the topics that jump to mind. The main ground rule for the Letters column is that all letters must be submitted with the author's name and signature. If you wish the letter to be published without your name (sometimes necessary when discussing controversial topics), that's no problem. Your letter will be published with the byline "name withheld by request", but again the original must be received by the editor with the author's name and signature.

I'm going to try to publish the Communicator on a monthly basis, even with the current budget crunch with the newsletter. To do this, I'll be taking some measures to reduce the size, but hopefully not the content of the newsletter such as printing it in condensed print. I realize that the condensed print is harder to read, but hopefully by printing it on a laser printer the quality will be adequate. To insure that the Communicator reaches all club members before the monthly meeting (which this issue probably won't), the deadline for submissions to the Communicator will be the 15th of each month. For instance, the deadline for October's Communicator will be September 15. The deadline is not being done for editorial purposes; it is being done to give Rick plenty of time to get the Communicator produced and in the mail so that it will arrive at least a few days before the meeting.

My policy about contributions is that contributors will receive copies of their articles as they will appear in the Communicator in advance of publication with the opportunity to withdraw them if they object to the way they will appear. This policy doesn't apply to spelling and punctuation correction, reformatting and retyping, and minor clarification points (which are clearly marked as having been made by the editor).

ARRL RENEWAL COMING UP?

Don't forget that if you renew your ARRL membership through the club, the club realizes a small profit. Details are available from Jim N8GJR at any general meeting.

NORTH COAST SPONSORED NOVICE AND TECHNICIAN/GENERAL LICENSE CLASSES

From information provided by Ray Maskow WD8MHL

North Coast will sponsor Novice and Technician/General classes beginning September 30. The classes will be held at the North Olmsted High School, 5755 Burns Road, on Wednesdays from 7 to 9:30 P.M. and will run for fifteen weeks. The fee will be \$17.50 plus books. You can preregister for the classes by contacting North Olmsted City Schools, 27253 Butternut Ridge Road, North Olmsted, Ohio 44070. Information about registration is available from Greg Birney or Dorothy Dealy of N.O.C.S. at 777-7700. Registration can be done in person on September 15 and 17 from 7-9 P.M. and September 14 through 18 from 9 A.M. to noon. For more information about the classes, you can contact Ray at 671-0317.

THIS MIGHT BE YOUR LAST ISSUE OF THE COMMUNICATOR

If your address label is marked with a red X, then current club records indicate that you have not paid your yearly NCARC dues, which were due on July 1. Please renew your membership. North Coast cannot continue to provide the range of services to the Amateur community and the general public without your continued support. Please tell your friends about North Coast and ask them to consider joining.

DO YOU SUBSCRIBE TO AN AMATEUR RADIO RELATED NEWSLETTER?

If you subscribe to an Amateur Radio Related newsletter such as the ARRL letter, W5YI report, Westlink Report, 220 Notes, etc. please consider routing them to the editor after you are finished reading them. Many members of the club are not able to listen to the Westlink reports on Sunday nights and are thus deprived of up to date information on what is going on in our hobby. I would like to be able to excerpt important information from such newsletters when the information is important enough, but neither I nor the club can afford to subscribe to all of these newsletters. Even with the Communicator publishing only once a month, it is usually more up to date than any of the major Amateur magazines. I receive several newsletters relating to the computer field in which I work and I intend to pass along pertinent excerpts from those publications as well.

A MEETING PROGRAM CHAIRMAN IS DESPERATELY NEEDED

For most of this year, North Coast has not had a formal Program Chairman. The club needs one badly. This is perfect job for one of the retirees in the club, since they tend to have more time to spare than younger members. The job mostly entails finding someone to speak at a club meeting. There are several sources of speakers that can easily consume a years worth of meetings, and we only need speakers for nine of the meetings (elections, National Weather Service, and field day preparations take up three of the meetings). Some excellent sources of speakers are Sohio

(offshore and Alaskan oil drilling), Ohio Bell/AT&T (on their technology), fellow amateurs speaking on exotic topics such as ATV, Packet, or Satellites, Northeast Ohio public safety agencies such as Cleveland Fire about their communications systems, or of course speakers from NASA. You get the idea; the job is not that tough; it mostly involves finding out who to ask and setting up the date for them to be at the meeting. This position is too important to leave unfilled. Please get involved in YOUR club. If you'd like to volunteer for Program Chairman, please give Tim Hitesman NR8T at call at 871-3055.

K8SLX AND WL7AEC DEPART FOR THE GREAT WHITE NORTH

Chris and Tom apparently didn't let the dust gather once the process of selling their home in North Ridgeville was complete. From talking to several people on 5.29, after the gas company checked their home on Thursday August 20 they left. We expect to receive a letter from Chris with the (no doubt entertaining) details of the move and their arrival in "God's Country". Their presence will be sorely missed, especially tender moments such as Tom's cry of "Go Broncos" on 5.29 during the Superbowl playoff when Cleveland played Denver.

NEW ARRIVAL

Dan WD8AJF and Ann K8ZEP Wadsworth recently brought a new harmonic into the world! Andrea Marie Wadsworth was born on June 20, and the vital stats are 6 pounds 3 ounces and 20 3/4". Congratulations Dan and Ann!

NEW RADIO SHACK NOVICE PACKAGE

Elsewhere in this issue is an excerpt from the W5YI Report with the details of a new Novice study package available at Radio Shack stores later this year. Elsewhere in this issue is a flyer detailing the club's VE exams during 1987. It might be a good idea to make several copies of this flyer and distribute them to your local Radio Shack so the potential Novices know where they can go in the area to become licensed.

LORAIN COUNTY AMATEUR REPEATER ASSOCIATION GETS NEW REPEATER SYSTEM

If you depend on the Lorain County Amateur Repeater Association's Skywarn group to get the warning on weather coming in from the West, (almost everyone listening to Skywarn on the 146.76 does) you'll be happy to know that LCARA has just acquired a 100 watt continuous duty Motorola Micor Repeater system. The repeater was located in Cliffside Park New Jersey (just across the river from Manhattan Island) and was picked up in a marathon driving session that began Saturday August 23 at 9:00 P.M. and ended Sunday, August 24 at 7:00 P.M. The driving team consisted of Jim Johnson K8SEO, Jeff Burge WD8IQA, and Steve Stroh N8GNJ. Jeff, being a Motorola technician, had access to a Motorola test set and was able to give the repeater a thorough check before accepting it. Although the repeater had been detuned to try to compensate for a adjacent channel interference problem, Jeff's capable tweaking brought it right back into spec. LCARA had a fundraising drive for the new repeater which was priced at \$1800. The new repeater will be retuned for 147.15, modified for battery backup and LCARA's RC-850 repeater controller, and then entered into service feeding a refurbished antenna and just enough 7/8" hardline to make the run, minimizing losses. With the new repeater, and the addition of ATV capabilities and the new Lorain County Disaster Service Agency's new headquarters, Lorain County is well prepared. Congratulations to LCARA!

NEWEST ARRL AMATEUR RADIO MOVIE TO BE DEBUT ON SATELLITE

From the Westlink Report aired August 30 on the NCARC Informal Net

The ARRL's latest amateur radio film The New World of Amateur Radio will debut on the GTE Spacenet 1 satellite, transponder 12 Horizontal (channel 23) on Sunday, September 20 at 6:00 P.M. EDT. Any amateurs capable of receiving the broadcast and recording the broadcast on videotape are encouraged to do so to get the widest possible distribution for the new movie.

OHIO STATE PATROL HAS NEW 800 NUMBER

Downloaded from the Cleveland Hamnet (KB1PJ) BBS at 942-6382

Msg # 1120 Dated 07-23-87 14:36:48

From: RUSS IMBURGIA

To: ALL

Re: EMERGENCY PHONE NO

The Ohio State Patrol has initiated a new statewide 800 phone number for use in reporting accidents, fires, crimes, etc. anywhere in the state of Ohio. They will handle the call or route it to the appropriate authority. The number is: 1-800-525-5555. Clubs with repeaters note.

ICOM IC-290H FOR SALE

Steve N8GNJ is selling an Icom 290H two meter all mode radio that is in excellent condition for \$300. If you are interested, contact Steve at 365-2793 any evening.

AMATEUR RADIO CALENDAR

Downloaded from the Cleveland Hamnet (KB1PJ) BBS at 942-6382

09/07 Labor Day
 09/10 W1AW qualifying run
 09/12 September VHF QSO party
 09/12 Ham-o-rama, Niagra Falls, NY
 09/12 VEC testing. Toledo, OH. KU8B. 419-729-5245.
 09/13 Cleveland Heart-a-thon, contact W8AJR to volunteer
 09/13 Butler Hamfest, Butler, PA
 09/13 Findlay Hamfest
 09/17 Indian Hills R.C. meeting 8 P.M.
 09/19 NEO Apple corps meeting 9 A.M.
 09/20 W1AW qualifying run
 09/26 Bellefontaine Hamfest
 09/26 Cleveland Hamfest banquet
 09/26 VEC testing. Portage ARC. KJ30/8. 274-8240
 09/26 VEC testing. Silvercreek ARA. Barberton, OH. KA8MPH. 882-6387
 09/27 Cleveland Hamfest
 09/27 Twenty Over Nine (Youngstown) Hamfest
 09/29 Leara monthly meeting at Hoffbrau House on East 55th

NET CONTROL OPERATOR ROTATION SCHEDULE9:00 P.M. SUNDAY 2 METER INFORMAL NET

Steve Stroh N8GNJ Net Coordinator

Glenn	Dave	Steve	Barb	Larry	Ron
<u>WD8OMW</u>	<u>N8ETY</u>	<u>N8GNJ</u>	<u>N8DAD</u>	<u>N8IAA</u>	<u>KB88EB</u>
7/19/87	7/26/87	8/2/87	8/9/87	8/9/87	8/16/87
8/23/87	8/30/87	9/6/87	9/16/87	9/20/87	9/27/87
10/4/87	10/11/87	10/18/87	10/25/87	11/1/87	11/8/87

Please send any changes or corrections to me in writing. It is not necessary to notify me at all when switching dates with another net control station as long as your date is covered.

MINUTES OF THE JULY 2, 1987 NCARC TRUSTEES MEETING

Steve Stroh N8GNJ acting secretary

Trustees and officers in attendance were Ray WD8MHL, Steve N08M, Jim N8GJR, Rick K8SCI, Pauline KA8FOE, Tim NR8T, and Steve N8GNJ. Guests were Fred WB8UDA, Dave N8ETY, Mike K9SSL, Merilee KA8ZVK, Merilee's friend Julie, Larry N8IAA, Jeff KR0J, and Jeff's friend Eileen.

Jim N8GJR gave the treasurers report. Jim made a motion to purchase a block of 6 shares of the repeater based on an estimate of the clubs finances. Rick made a motion to amend this motion to make the purchase only 5 shares. Pauline KA8FOE seconded. Amendment carried. Amended motion carried. The club now owns 25 shares of the repeater (25 percent).

Tim NR8T informed the trustees that the club has lost the current printer of the newsletter. The current printer was able to print the newsletter for 1 cent per page. That cost could now quite possibly double or treble. Rick K8SCI is actively looking at for alternative ways of publishing the newsletter. A discussion ensued about the "newsletter crisis" and how it will be handled for at least the short term while long term solutions are worked out. The preliminary conclusion was that the size or the frequency of publication would be reduced at the editor's discretion to stay within the currently authorized newsletter budget.

Ray WD8MHL has volunteered to head the education committee. He gave a brief report on what he has been doing since volunteering. Rick K8SCI made a motion that Ray WD8MHL be authorized by the trustees to advertise in the North Olmsted Board of Education's Adult Education Course publication that the cost of the North Coast sponsored Novice and Technician -General classes as being \$7.50 above the direct cost to the club. Jim N8GJR seconded the motion. Motion was carried.

Rick K8SCI related a talk he had with Dan N8ETQ, who reported that after a conversation with the Celwave (manufacturer of the repeater's new antenna) that all the parts necessary to build the antenna are in house and the antenna will be shipped somewhere between July 10 and 15. Rick also reported that Tom N8ETP is working on a high pass filter for the 5.29 repeater's touch tone decoder circuitry and it is hoped that this filter will substantially reduce the problems of using subaudible tones (sometimes known as PL or Channel Guard) on the 5.29 repeater. Rick also reported that he has been way too busy to try to fill out the application to the Ohio Repeater Council necessary to procure a coordinated frequency pair for the club's proposed 220 repeater.

Ray WD8MHL motioned that the meeting adjourn. Jim N8GJR seconded. Motion carried, the meeting adjourned at 19:23 EDT.

MINUTES OF THE JULY 2, 1987 NCARC GENERAL MEETING

Steve Stroh N8GNJ acting secretary

Meeting was called to order by Tim NR8T, President at 19:50 EDT.

Jim N8GJR gave the treasurer's report. The club has now purchased 25 shares or 25% of the repeater.

Mike K9SSL gave a brief finance committee report. Tim NR8T mentioned that 50% of the purchase price of the fund raising candy bars is Tax deductible since it is a donation to a tax exempt organization.

Ray WD8MHL (who recently accepted the position of Education committee chairman) gave a brief report on preparation for the upcoming classes.

Rick K8SCI gave a brief review on the loss of the G7 antenna that he had loaned to the club for use on the 5.29 repeater. The G7 was partially destroyed by a lightning hit on May 14.

Ray WD8MHL reported on Field Day. Field day was a success- there were no casualties, although it hailed 3 times, rained quite a bit, etc.

Fred WB8UDA made a proposal for starting a drive for Ohio Amateur Radio Operators to be able to get "real" Amateur Radio license plates with the words "AMATEUR RADIO" stamped into them as a logo. Ohio doesn't have real Amateur Radio plates at present, just ordinary passenger plates that you can arrange to have your callsign on. The current plates are not "vanity" plates, and do not carry the vanity surcharge. [An article explaining the procedure for obtaining such plates has been previously published in the Communicator, and I hope to reprint that article annually- ed]

Rick K8SCI talked about candy bar sales. 3060 distributed out of 6000.

Tim NR8T and Rick K8SCI mentioned the desperate need for volunteers for the North Olmsted Soccer Organization tournament and Bay Village 5 mile run on Saturday July 4.

Fred WB8UDA made a motion to adjourn. John WB8CJA seconded. The motion carried and the meeting was adjourned. There was no formal program.

MINUTES OF THE JULY 18, 1987 NCARC SPECIAL TRUSTEES MEETING

Ray Maskow WD8MHL acting secretary

The meeting was called to order at 09:15 EDT by President Tim Hitesman NR8T. Trustees and officers in attendance were Bob K8TTZ, Dick WD8ISB, Jim N8GJR, Steve N8M, Rick K8SCI, Pauline KA8FOE, and Ray WD8MHL.

Jim N8GJR made a motion to spend up to \$100.00 from current fundraising profit for a table to sell candy bars at the North Olmsted Homecoming on August 27-30. North Coast ARC will be the only group allowed to sell candy bars of any kind at the Homecoming. Dick WD8ISB seconded the motion. The motion was carried. The meeting adjourned at 09:26 EDT.

MINUTES OF THE AUGUST 6, 1987 NCARC TRUSTEES MEETING

Steve Stroh N8GNJ acting secretary

Meeting was called to order at 18:19 by Bob K8TTZ Vice President. Trustees and officers in attendance were Ray, WD8MHL, Mike K9SSL, Steve N8M, Bob K8TTZ, Rick K8SCI, and Pauline KA8FOE. Visiting were Tom N8IAN, Tom N8FQQ, Tom KB8CI, Dave N8ETY, Dan KB8A, and Mary Lou N8ILL

Bob K8TTZ reminded those present that the September meeting will be on the first Wednesday (September 2) rather than the first Thursday as is normal. The library's meeting room was already booked for September 3.

Tom N8FQQ gave a brief technical committee report. A problem has been noted by several users that the repeater receives better than it transmits in certain areas. Members of the technical committee have located a Spectrum 220 (30 Watt) repeater package consisting of a complete repeater, antenna and hardline for approximately \$3000. It was the judgement of the technical committee that this system was overpriced and should not be considered by the club. The technical committee will continue to explore ways to "get the club on 220". A tone oscillator for the 5.29 repeater tone alert project is currently being built by Dan N8ETQ. [I would be more than happy to publish full reports from all club committees (in addition to the brief reports that appear in the Secretary's official minutes) in the Communicator if the reports are made available to me- including all past committee reports if the Head of the committee so desires.- Ed]

Rick K8SCI mentioned that he had submitted formal engineering drawings to the North Olmsted City Director for inclusion in a proposal that might result in the 5.29 repeater being sited on one of the taller buildings in North Olmsted. The decision is now in the hands of the city and the owners of the building.

Rick K8SCI made a motion to authorize up to \$50 to bring the Motorola UHF equipment owned by the club up into the Amateur Radio UHF band. The Motorola equipment was donated to the club by Cleveland Twist Drill and is currently tuned for the Commercial UHF band. Ray WD8MHL seconded the motion. The motion was carried.

Rick K8SCI acting as temporary treasurer gave treasurer's report. The NCARC booth at the upcoming North Olmsted Homecoming will cost the club \$12. Steve N8GNJ made a motion to authorize Rick to spend up to \$25 to print flyers for the club's Volunteer Examiner Amateur Radio licensing exams and Amateur Radio classes for the upcoming North Olmsted Homecoming. Ray WD8MHL seconded the motion. The motion carried.

Bob K8TTZ mentioned that the club has received a letter from the Cleveland Hamfest Association inviting the club to participate in the Cleveland Hamfest by selling tickets (50 cents profit per ticket), using an 8 foot table in the commercial vendor area, and naming the NCARC ham of the year for an award at the Cleveland Hamfest Banquet. Rick K8SCI made a motion to accept all three of CHA's offers, and for the club to authorize an expenditure for up to \$40 to pay for a banquet tickets for the designated NCARC ham of the year and a guest. Ray WD8MHL seconded the motion. The motion was carried.

Steve N08M mentioned that he has located a G7 antenna in California to replace the G7 owned by Rick K8SCI which was damaged by lightning while in service on the 5.29 repeater. The cost would be slightly under the amount previously authorized by the club to replace the antenna.

The meeting adjourned 19:14 EDT.

MINUTES OF THE AUGUST 6, 1987 NCARC GENERAL MEETING

Steve Stroh N8GNJ acting secretary

The meeting was called to order by Vice president Bob Mills K8TTZ @ 19:46 EDT. Trustees and officers in attendance were Pauline K8BFOE, Rick K8SCI, Steve N08M, Steve N8GNJ, Ray WD8MHL, Bob K8TTZ, and Steve WD8INO.

Rick K8SCI acting Treasurer gave the treasurers report. George K8WNE motioned that the treasurer's report be accepted as read. Larry N8IAA seconded the motion. The motion was carried.

Since Tom N8FQQ was called out of the meeting by his beeper, Rick K8SCI gave the technical committee report. The new repeater antenna has been installed. Improvements in coverage, if any, are hard to determine because the G7 antenna was installed March 21 and hit by lightning on May 14. During that time the foliage wasn't nearly as dense as it is now, so a direct comparison is difficult. Rick also mentioned that May 14 was the club's fourth anniversary. The technical committee is planning an experiment to temporarily increase the Effective Radiated Power of the 5.29 repeater by adding a power amplifier to the repeater's transmitter. This experiment will help determine if there is any validity to the widespread belief that the 5.29 repeater receives much better than it transmits. Rick also mentioned that the power out of the repeater's transmitter is 50 watts; that is attenuated by the 2.2 dB loss in the duplexer, and the power out of the duplexer is 30 watts.

Bob K8TTZ mentioned that Rick K8SCI had resigned as editor of the club's Newsletter, the North Coast Communicator and that Steve N8GNJ had accepted the position of editor. Rick will continue to assist in actual production of the newsletter for the immediate future. Steve mentioned that he would appreciate any contributions be sent to him directly at his home address rather than the clubs P.O. box.

Bob read the letter from the Cleveland Hamfest Association, and announced that the trustees had accepted the CHA's invitation, and would be paying for the NCARC ham of the year's and a guests dinner (up to \$40). Since Fred WB8UDA is awards chairman, it was felt that any suggestions on who should be selected to receive the award should forward their suggestions to Fred.

Ray WD8MHL gave a report on the education committee. He has requested that the NCARC classes be held on Wednesday, 7-9:30 P.M. Ray currently has enough volunteers to handle a Novice class, but needs more volunteers to teach a Technician and General class.

Ray WD8MHL and Rick K8SCI gave a Field Day report. 1007 X 2 points, 100% emergency power- 7 x 100. Extra points were awarded for publicity, copying the W1AW message, having a packet Radio station, and having contact with a MARS station. A good time was had by all, despite the competition from the weather (the field was literally white with snow from the hail at one point).

Steve N08M has located a G7 antenna in California, for \$129.95. The antenna will be purchased by the club and given to Rick K8SCI to replace the one that was destroyed by lightning while in service on the 5.29 repeater.

Rick gave a report on the club's participation in the North Olmsted Homecoming. The total cost to the club will be \$12.00 and the club will be selling candy bars, demonstrating Amateur Radio, sending messages via Packet Radio/National Traffic System, and distributing flyers about classes and VE examinations.

Dan KB8A reminded everyone present about the upcoming VE exams.

Rick K8SCI mentioned that there will be a disaster drill on Saturday October 17 involving a simulated Conrail train accident. The drill will involve the Cleveland Fire Department, Cuyahoga County Department of Emergency Assistance and Planning, and will be held within a block of the CFD training center. Two meter voice and portable packet operators are needed.

Rick K8SCI mentioned that 3100 out of 6000 candy bars have been sold. More salesmen are needed.

Bob K8TTZ reminded everyone present that the next general meeting will be on Wednesday, September 2 rather than on Thursday, September 3 due to the library's meeting room already being scheduled for that date.

Bob K8TTZ also mentioned about the trustees approval of expenditures of \$25 for printing and \$50 for modifying the Motorola UHF equipment the club owns.

Dan KB8A made an impassioned plea for renewals- approximately 130 have renewed and 100 haven't. It's going to be a very lean year if this trend continues.

Tom WL7AEC and Chris KA8SLX announced that the selling of their home was finally complete and that they will start the great trek to Northern Minnesota on August 20.

Steve WD8CHA informed the club that Basil K8UTE is back in Fairview General Hospital because of complications. Basil would no doubt appreciate a few cards.

Bob K8DTS mentioned the upcoming Warren Hamfest.

Ron K8VJG made a motion to adjourn the meeting. Larry N8IAA seconded the motion. The motion was carried and the meeting was adjourned at 20:45 EDT. The program was an informal presentation on the Ohionet packet radio network given by Steve N8GNJ and Tom KB8CI.

NORTH OLMSIED HOMECOMING NCARC BOOTH August 27, 28, 29 and 30 of 1987.

Those that helped or visited the NCARC Booth during the Homecoming were: KB8BEB Ron, KB8BSC John, KB8CI Tom, KB8CJL Andy, KB8CJP Dave, N8EIJ Ken, KD8EQ Dick, N8EIW Ernie, N8EIZ Mary, KA8FOE Pauline, N8GNJ Steve, N8HOB Paul, N8HPV Elizabeth, N8IAA Larry, N8IQF Bill, KA8LIH Karen, N8RM Steve, WD8MHL Ray, WD8OMW Glenn, WD8OYO Dave, KB8CI Rick, WB8IWL Ron, KB8WNE George, KA8ZVV Mary and KA8ZVW Gene (my appologies for not mentioning others who may have helped or visited). A special thanks goes to K8YUW Jerry for aiding the operation with a Boost-Transformer and N8ACI Fred for bringing it to the event for the club to resolve a AC power problem at the booth.

STONE ALERT SYSTEM

Dave Kifer N8ETY

As many of you know, the National Weather Service has for years used a "transmitted tone" to set off our weather alert radios in the event of a weather emergency. In the past couple of years several area repeaters have incorporated a tone system into their controllers. Members of the respective groups carry pagers or have their two meter rigs "set off" when the tone is sent across the repeater. North Coast board, technical, and general members have expressed an interest in this system on the 145.29 repeater.

In this, the first of several articles, I would like [to] give a brief overview of why and how the system works, with technical description and circuits to follow in upcoming issues.

The purpose of the "tone alert" is to be able to contact members in the event of an emergency. The system we are currently getting ready will allow us to command the repeater to send out a single tone. This tone, [when] transmitted by the repeater will:

- #1 Open two meter radios with the "tone alert" add-on circuitry
- #2 Open pagers set up and re-tuned to the 145.29 frequency

Once either of these units are "opened" by the tone alert system, they will remain open for the voice announcement which would follow; IE; public emergency, natural disaster, hazardous material spill or anything which would require Amateur Radio assistance.

The circuit I feel most of us will use is a "add-on" to any two meter rig. This unit plugs into the earphone jack on any two meter rig. It mutes the speaker until it receives the "tone" sent by the repeater. For those that have more than one two meter rig, the circuit can be on one rig and you can be working the other.

At this point I should mention that "re-tuning" an actual "weather alert" radio from its 162 MHz band to Amateur frequencies is possible, but I don't have any idea of how this would work and I don't know anyone who has tried it. [This article was slated to appear several months ago and accidentally was left out of the last issue of the Communicator. Since this article was written, an article detailing several modifications of Radio Shack's popular Weathercube weather radios appeared in the June 1987 issue of QST. Steve Wolf N08M has performed some of the modifications detailed in the QST article.- Ed]

As the newer "pagers" come into the market, the older ones are becoming available at very reasonable cost. They need to be reworked to receive in the two meter band and decode the tone sent out. They operate the same as they did in commercial service- when they receive the proper tone they unquench and the voice report is heard.

The add-on unit has been featured in numerous Amateur Radio magazines. It has been modified, remodified, and reworked many times. The "basic" design uses a "567" tone decoder circuit tuned to the single digit frequency. The chip controls a normally open relay with the speaker (in the unit) as its output.

You can build a no-frills unit or get deeper into the circuit and really fabricate a nice unit. My prototype is self-contained with a 9 volt battery, speaker, a switch to test the unit, and a small switch which bypasses the circuit and turns the speaker "on". I invested about three dollars into parts, but admit countless hours were spent "playing" with the design.

The "basic" 567 design is susceptible to falsing. However, using a one chip logic circuit on the output will clear [up] that problem.

The "belt loop" pager approach is in many respects a nicer and easier (once the unit is converted) way of having the "tone" alert capability.

Next: schematic and principles of the "567" unit.

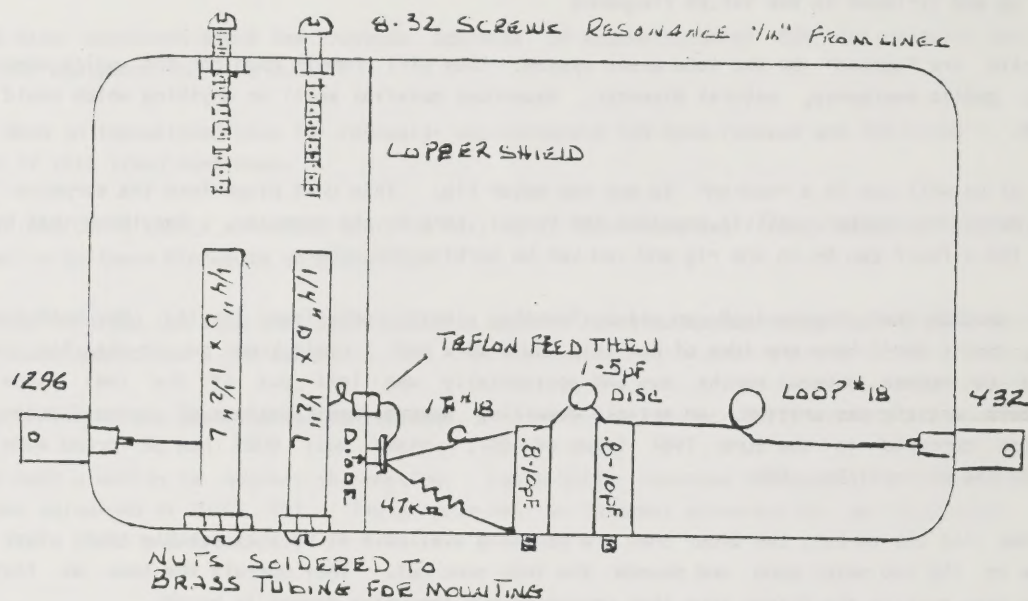
COOKING WITH MICROWAVES

Steve Ferraro WD8INO

Ingredients

- 1 Microwave Associates MA43636 varactor
- 1 47K ohm resistor
- 1 teflon feed through
- 2 .8-10 pF piston trimmers (Johanson 5200 series)
- 1 1-5 pF disc capacitor
- 2 1/4"D x 1 1/2"L brass tubing
- 2 8-32 screws and nuts (unshelled)
- 2 BNC chassis connectors
- 1 Hammond 1590 B box
- Misc. wire- 18 gauge

Combine these ingredients together from drawing below and add 15W of 432 drive and Voila! 5.5W out on 1296!



Have fun cooking! PS: Definitely not from Home Ec. class.

10-10 INTERNATIONAL NET

Chuck Early K8RSH

Ten meters is now one of the most active bands, and Ten-Ten International Net, Inc. is one of the most active organizations on the ten meter band. Joining 10-10 is very simple. Just make contact with ten people who have a 10-10 number. Send them [a list of the those you contacted- Ed], listed numerically, with the call, handle, and location, to your area manager. The 8th call area manager is John Hugentober, N8FU, 4441 Andreas Avenue, Cincinnati, Ohio 45211. Enclose \$5.00 (\$1 registration, \$4 dues) check or money order (no cash, please). You will shortly receive your certificate and permanent 10-10 number. This is like your Social Security number. It is yours forever! You will also begin receiving the Quarterly 10-10 International News, which contains information on contests and their results, awards, and general information about 10-10 around the world.

Try it! You'll like it!

MANAGERS

Ten-Ten International Net, Inc.
Monitoring 28,800 KHz—Daily Except Sunday

U.S.A. CALL SIGN AREAS

1. Al Kaiser	N1API	194 Glen Hills Rd.	Meriden,CT	06450
2. Larry Berger	WA2SUH	9 Nancy Blvd.	Merrick,NY	11566
3. Jim Duppins	WA3RBQ	2317 Windsor Ave.	Baltimore,MD	21216
4. Dave Buschow	WD4MPG	2319 Contest Lane	Haymarket,VA	22069
5. Grace Dunlap	K5MRU	Box 445	La Feria,TX	78559
6. Dick Rauscher	W6ANK	4371 Cambria St.	Fremont,CA	94538
7. Willie Madison	WB7VZI	10512 W. Butler Dr.	Peoria,AZ	85345
8. John Hugentober	N8FU	4441 Andreas Ave.	Cincinnati,OH	45211
9. Berniece Tielemann	N9CDO	Rt. #1 Box 207	Lenzburg,IL	62255
Ø. Alice Hathaway	NØDES	1221 S. Santa Fe Av.	Pueblo,CO	81006

*Mid-May to mid- October, K5MRU's address is Box 13, Rand, CO 80473

The 4th Call Area has been further divided as follows: VA,NC,SC: Malcolm Spangler, K4KUT, Box 481, Shelby, NC 28150; KY, TN: Ollive C. Justice, N4IT, P.O.Box 683, Pikeville, KY 41501; AL, GA: Jim Beswick, W4YHF, Rt. 5, Box 77B, Ellijay, GA 30540; FL: WD4MPG (See address above).

DX AREAS

ALL DX AREAS EXCEPT VK AND ZL: Carol Hugentober, K8DHK, 4441 Andreas Ave., Cincinnati, OH 45211 USA.

VK: Les Olsen, VK2JLO, 3 Noumea St., Shalvey 2770, NSW, Australia.

ZL: T.J."Mac" McKenzie, ZL3RK, 73 Cygnet St., Christchurch 9, New Zealand.

Order Form

QTY	ITEM	PRICE	AMOUNT
___	Annual Dues,U.S.A. Members New ___ Renewal ___	\$4.00	___
___	Annual Dues,Foreign Members New ___ Renewal ___	\$5.00	___
___	Registration Fee*	\$1.00	___
___	10-10 Stamps (100)	\$1.00	___
___	Membership Roster (Postage paid)	\$4.50	___
___	Membership Roster by AIR(Not avail.U.S.,CANADA,MEXICO)	\$6.50	___
		<i>CHECK OR MONEY ORDER</i> Total	___

SEND ORDER TO YOUR CALL AREA MANAGER.

*Registration fee is required of all new members. Make any checks payable to 10-10 International Net, Inc. DO NOT SEND CASH. Canadian, Australian, New Zealand applicants are reminded that dollar amounts quoted are U. S. dollars. Your bank can tell you how much to send in your own currency to make up the required amount in U. S. funds. Other DX member orders,through K8DHK, payable by International Postal Money Order only.

Complete the following by typing/printing and mail to your CALL AREA MANAGER

10-10 No. _____ Call _____ Name _____
Address _____ City _____ State _____ Zip _____

Please enclose an SASE or stamps !

[These next few articles were meant to have been published earlier this year and I'm taking this opportunity to clear the deck.- Ed]

THERE AIN'T NO SUCH THING AS A FREE LUNCH (BUT SOME THINGS ARE REASONABLE)

Steve Stroh N8GNJ

I've encountered the above saying (frequently shortened to TANSTAAFL) numerous times in science fiction stories by Robert Heinlein. By and large I've found it to be true. But I've also found that some things, although not completely free, are very reasonable.

One such thing that I have found to be extremely reasonable in cost is our membership in the North Coast Amateur Radio Club. Just consider for a moment all of the things that you "get" for your yearly dues.

The thing that had initially attracted me to North Coast was the Sunday night net. I had never heard (and still haven't, other than the Swap & Shop net) a collection of so many hams gathered on one repeater at the same time anywhere else in Northeast Ohio. The fact that North Coast aired the Westlink report every Sunday (and no one else did) really impressed me. North Coast now sponsors a 10 meter net on Saturday morning for the benefit of Novice class operators. But the nets are just one small part of what North Coast is all about.

The code practice sessions are another valuable service that North Coast provides. There have been many occasions that North Coast has been complimented on sponsoring code practice sessions on a regular, continual basis. North Coast's code practice is the only one (on VHF) in Northeast Ohio that I'm aware of.

The Communicator is the best Amateur Radio newsletter that I have seen. It's complete, informative, "newsy" and friendly. As many have mentioned, the newsletter is the "glue" that holds an Amateur Radio club together. Rick K8SCI deserves a great deal of credit for the fine job that he does as editor of the Communicator.

North Coast sponsors Amateur Radio code and theory classes. This activity is probably the single most important thing that the club does for the Amateur Radio Service. Without growth in numbers, Amateur Radio's days are numbered. North Coast, through several dedicated volunteers, does its share to enhance the hobby.

Another service that North Coast provides to Northeast Ohio Amateurs are the bimonthly VE upgrade examinations. These sessions are held every other month on a schedule announced a year or so in advance so that those who wish to upgrade have ample opportunity to do so.

Don't forget the meetings! There is usually an interesting topic presented at the meeting, typically with a guest speaker. The club's officers meet separately (more about this later) for the purpose of attempting to get most of the "business" of the club out of the way so that the business of the club isn't the major part of the meeting. Coffee and donuts are provided by the club at the meetings, there is a 50/50 raffle to add some "spice" to the meeting (and of course profits to the club treasury), there are door prizes awarded at each meeting, and of course the camaraderie that results from seeing the people that you talk with every day on the repeater.

The club sponsors an "old fashioned" Field Day every July. The club goes out of its way to accommodate newly licensed novice operators, the club is consistently able to field quite a respectable Field Day station every year, and everyone who participates has a wonderful time.

An out of the ordinary activity that North Coast sponsors are the monthly Foxhunts (or hidden transmitter hunts). These Foxhunts are excellent training for finding malicious interference, cable televisions leaks, power line noise, etc. Participating in the foxhunts is an absolute riot; lots of fun, exciting and interesting.

There are quite a few intangibles that go along with North Coast membership. For the most part, North Coast is a club of doers; one of the best examples of this is the fact that North Coast is one of the few clubs in the area that is incorporated as a Not-For-Profit corporation in the state of Ohio, and a tax exempt educational, scientific, and charitable organization per the IRS code. Achieving that step took an awful lot of work on the part of many North Coast members. Because of that rather unique status such things as cheap bulk mailing can be accomplished, and donations made to the club are considered tax deductible.

Another intangible is the way the club is governed. There is very little "politics" in North Coast because North Coast was set up that way by its founders, who had seen what happens when politics get in the way of the purposes that an Amateur Radio club is formed for. Trustee (or board as they are sometimes called) meetings are open to ANY North Coast members (and the general public for that matter), and are announced well in advance to allow anyone who wishes to attend to do so. North Coast's budget is an open one in concept; any member who wishes to get an idea of "where the money is going" is welcome to inspect the treasurer's books. Officers and trustees are elected by majority vote of the general membership.

North Coast as a whole is very active in public service events. North Coast members provide communications for several annual events in the Cleveland area, and as a result of this training many members are well experienced in "controlled" type communications. North Coast Amateur Radio Emergency Services (NCARES) has a formal written agreement/plan to provide emergency communications for the Cuyahoga County Division of Emergency Assistance and Planning (EAP).

The 5.29 repeater should not be forgotten as a major resource of the club. The repeater with its autopatch system is used for public service, the nets, code practice, and friendly chats between users. From the first day the repeater has been on the air, the predominant attitude has been friendliness. Newcomers to the area as well as transient stations are frequently heard and welcomed to the repeater and encouraged to use it whenever they wish. The club has a broad base of members that are willing to help new hams, many of which are regular users of the 5.29 repeater, so newcomers are almost always made to feel welcome immediately. A wide diversity of topics are discussed on the repeater, and system usage is increasing. Future plans for the repeater are to provide better coverage, especially to the eastern half of Cuyahoga County, add a tone alert system to alert members of NCARES of an emergency, and adding a 220 repeater system for novice class operators that will be linked into the 5.29 repeater to allow Novices to share in the "spirit" of 5.29.

One last statement that I think is indicative of the general attitude of North Coast- its membership is completely open to all. If you would like to belong to the club, pay your dues and you are a member. You do not have to be "voted in" as is normal at some other area clubs.

Taken individually the above items are small ones. Together they form the basis for a well balanced, active, and friendly club. I feel that they are indicative of the overall "spirit" of North Coast; one of openness, access, and friendliness, not closed meetings and budgets that aren't accounted for. Remember that North Coast is not just a repeater club; it is a full service general interest ARRL affiliated Amateur Radio Club. I hope you would agree that there are many benefits and advantages to North Coast membership. If you do in fact agree with me that North Coast in general is a pretty good deal, then spread the word about it to your buddies who are not yet members. With more members, North Coast can only get better.

NORTHEAST OHIO'S ROLE IN THE OHIONET PACKET NETWORK

Steve Stroh N8GNJ and Tom Kryza KB8CI

August 1987

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Introduction

The Ohio Packet Council (OPAC) Inc. has begun construction of a Packet Radio network on 220 MHz (221.11 initially) for the state of Ohio. The network will consist of wide area digipeaters, Packet Bulletin Board Systems (PBBS), and Gateways (to provide access to Ohionet by stations that are not directly compatible with Ohionet and other services such as the Skipnet HF Packet Radio Network and the Fuji satellite's PBBS).

Ohionet's primary purpose is the handling of Public Service type traffic during emergencies and linking the various PBBS' in the state on a frequency that would allow them to move traffic much more efficiently than is now possible on 145.01. OPAC's primary role in the formation of Ohionet is that of a network coordinator, although it is OPAC's intention to be able to provide equipment to key locations where local groups don't have the funds or the expertise to support a wide area digipeater.

Ohionet will be constructed in three broad phases. The first will be to get a minimum network in place on 221.11. This is being done now using digipeaters consisting of a 220 radio and TNC operating at 1200 baud. Several of these digipeaters are already operating in the Dayton/Cincinnati area. A high profile digipeater is scheduled to go online in Columbus by late July.

The second phase will be to upgrade the digipeaters to network nodes, capable of among other things point to point error correction (rather than end to end error correction as is the case with AX.25) and automatically routing connections (and rerouting them if a particular node isn't functioning).

The third phase will be to supplement Ohionet trunks (heavily used paths, typically between major cities) with high speed RF modems (units that combine a high speed modem and suitable radio into a single unit) such as those recently announced by GLB and AEA. These soon to be available RF modems are rated at 19,200 baud.

After those three initial phases, Ohionet will undergo expansion as coverage is provided to areas that are marginal or not covered. Gateways will be hopefully be added for access to the Fuji and Amsat Phase 3C satellites and other bands such as Amateur microwave frequencies (which may end up being the frequencies that the trunking links move to) and Skipnet.

Access to Ohionet will be restricted- initially

One of the most controversial aspects of Ohionet has been that Ohionet will be a closed network; access to its services by the general Amateur population will not be permitted. PBBS', Skywarn, Red Cross, Disaster Service Agencies, National Traffic System, ARES and RACES, ARRL Official Bulletin Stations, stations providing Gateway, W5YI Report, Amsat bulletins, etc. are the types of stations that will be allowed access to Ohionet.

The reason for this is that the network will be very fragile in its early stages with only a few major digipeaters with tenuous long haul links. Massive casual traffic will result in the same kind of forwarding delays that are now common on 145.01. Ohionet will be pushed to see how efficiently it will work. It is hoped that Ohionet will eventually have sufficient capacity to handle casual traffic, but that is not likely to happen until high speed RF modems come online.

Implementing Ohionet will have several benefits to the general packet community even though they will be denied direct access to it. The first will be that PBBS operations will become much more efficient; forwarding on demand (forwarding a message immediately after it has been entered into a PBBS) will become possible for the first time- a PBBS clobbering casual users of the network will not be a problem. This will result in much more timely delivery of messages; instead of messages being delivered in hours, it will be possible to deliver a message to the destination PBBS in minutes.

Another major benefit of Ohionet to the general packet community will be that PBBS operations will move off 145.01 as Ohionet nodes come online, leaving 01 free for casual users. This doesn't mean that there won't be any PBBS use of 145.01, but PBBS traffic will be reduced substantially. PBBS traffic will probably still exist on 01 for some time, especially in areas that don't have Ohionet nodes and state border areas.

A third less obvious, but perhaps more important benefit will be that RELIABLE Amateur Radio digital communications within the state will be available in case of an emergency (with a MUCH more usable 145.01 available as a backup network frequency).

Northeast Ohio's role in Ohionet

What is needed in the Cleveland area in the short term (Fall 1987) is a high profile digipeater on 221.11 with good coverage to the South and East. The site needs to have easy access to the radios and TNCs because there will be continuing experimentation as the network evolves, and the TNC will need to be reprogrammed frequently. It is desirable to be able to install low profile local gateways at the same site if possible.

An equipment list (prices from Spring 1987 AES catalog where possible) for a good site would be as follows:

1. Hustler G7-220 omnidirectional antenna- \$115
2. 250' Belden 9913 coax- \$110 (prefer to use hardline if it is available relatively inexpensively)
3. Icom 38A 220 MHz FM radio- \$399
4. GLB TNC 2A or MFJ 1270B- \$150
5. Net/Rom networking protocol software- \$65
6. Astron RS50A 12V 37A power supply- \$199
7. Battery backup equipment consisting of deep cycle batteries and an automatic charging system- \$100?
8. Lightning protection system- \$100?
9. Misc. hardware, cables, etc.- \$50

Total of above- \$1,200 (rounded)

Optionally a 100 watt or so power amplifier/receive preamp, especially if coax is used- \$250-300.

It is possible to purchase a high speed RF modem and of the type mentioned above for approximately \$650. This is only \$250 more than the expense of a voice grade radio, and the RF modem can be operated at 1200 baud initially to be compatible with the other Ohionet nodes, and would be capable of going to higher speed operation once compatible nodes are online within range.

It is possible to share a feedline and antenna that is already in place for a 220 voice repeater though the use of a combiner. A combiner functions much as a duplexer does allowing two radios on different (but reasonably close) frequencies to share feedline and antenna. This is a possibility if a repeater group is willing and able (the repeater must have a band pass/band reject type of duplexer) to share a site. The cost of the combiner is \$500.

It is also apparently possible to share a feedline with a two meter repeater, although separate two meters and 220 antennas are needed. We are trying to find out more about this technique from Vic K1LT in Columbus, who has used this technique extensively.

Long range plans

In the long term, Northeast Ohio must be able to provide wide area nodes for Ohionet to insure adequate access to the rest of Ohionet and to provide adequate forwarding paths to other areas of Northeast Ohio, such as West to Sandusky and Lorain, Southwest to Mansfield, Medina, and Wooster, South to Akron and Canton, Southeast to Warren, Youngstown, and Pennsylvania, and Northeast to Ashtabula, and (secondary access to) Pennsylvania. Three Ohionet nodes serving Eastward, Southward, and Westward are desirable to provide adequate coverage and redundancy.

The other half of Ohionet is the Packet Bulletin Board Systems. Although the original PBBS' in the Cleveland area were funded out of the pockets of their sysops, this should not be expected to continue indefinitely. A high capacity PBBS consisting of an IBM AT class computer with several megabytes of memory, at least 40 megabytes of hard disk storage, 2 TNCs (to access 221.11 and 145.01) and radios to match will be needed badly in the future should the "turnpike syndrome" occur (amount of traffic increasing as ability to handle traffic increases) and should be funded eventually. The next generation of PBBS software will support that level of hardware; it is capable of simultaneous connects of different ports. Construction of a high capacity PBBS for Northeast Ohio is a project equal in importance (but not immediate urgency) to the construction of Ohionet nodes.

Fundraising and individual club efforts

In the late July/early August timeframe letters will be mailed to 50 or so of the Cleveland area's leading companies explaining Ohionet and why it is so important to Northeast Ohio and asking for donations to fund the construction of Ohionet nodes in Northeast Ohio. It is hoped that adequate monies will be raised through this effort to support several nodes of the type outlined above, and enough will be left to start purchasing the components for a high capacity PBBS. But, those corporate contributions cannot be counted on, especially in time to construct a minimum digipeater by the end of the summer to allow experimentation this winter.

If a club is capable of and willing to undertake the task of constructing an Ohionet node as a club sponsored project, that's great. All that is required in that case is to contact the OPAC networking committee (of which N8GNJ is a member) to insure compatibility with the rest of Ohionet. If a club or individual wishes to donate equipment (220 radios are badly needed) or money, OPAC will happily accept contributions. It is hoped that a system can be established that would accept contributions for Northeast Ohio Ohionet activity without involving OPAC.

Although individual Ohionet nodes may be owned by individual clubs, Ohionet as a whole is not an activity of any one particular group other than OPAC. OPAC exists solely to act as a "focal point" for projects such as Ohionet, help coordinate packet activity in Ohio, and act as a liaison between other states and packet activity nationwide.

If you have any questions about Ohionet or would like to arrange a talk about Ohionet for your club meeting, feel free to contact Steve Stroh N8GNJ, Ohionet coordinator for the Cleveland area (216/365-2793), or Tom Kryza KB8CI, OPAC 216 Area Director (216/671-7199) on the KB8CI PBBS on 145.01.

Many Thanks to those who have helped with Public Service Events de Rick KB8CI

NORTH OLMSIED SOCCER TOURNAMENT (NOSO) July 3, 4 and 5 of 1987. The following volunteers provided much appreciated amateur communications: KB8BEB Ron, KB8BPR Patricia, KA88PU Ray, KA8CKZ Bill, N8CQD Bill, W8EPM Joe, WA8ERA Lee, N8EIW Ernie, KA8FOE Pauline, N8GJR Jim, N8GNJ Steve, N8HHE Rob, N8IAZ Terry, KD8JQ Don, N8BM Steve, WD8MHL Ray, KB8CI Rick, K9SSL Mike, WA8IMK Fred, KA8ZVK Merilee and KA8ZVW Gene (my appologies if I overlooked someone).

BAYDAY RUN IN BAY VILLAGE July 4, 1987 those who volunteered to provide amateur communications for this event: KB8BEB Ron, W8EPM Joe, N8HHE Rob, N8INI Kathy, N8INJ Jason, NR8I Tim.

YOUTH RUN IN NORTH ROYALTON Sunday August 2, 1987 the following volunteers provided much appreciated amateur communications: W8EPM Joe, N8HVQ Jack, N8IAA Larry, N8INJ Jason, KB8CI Rick and NR8I Tim.

NORTH OLMSIED HOMECOMING PARADE Sunday August 30, 1987 the following volunteers provided much appreciated amateur communications: N8ICD Cliff, N8IAA Larry, WD8MHL Ray, KB8CI Rick, WBULH Walt, WA8VDG Bill and KA8ZVW Gene.

A CASE FOR A NORTH COAST 220 REPEATER.

Steve Stroh N8GNJ

You will read or have read in a previous issue about the trustees voting in favor of "A North Coast presence on 220". I would like to offer some personal opinion about the issue, since I was one of the trustees voting in favor of that decision, and I'd like to explain why I made that decision.

The main reason that there seems to be opposition to North Coast setting up a 220 repeater is that there are other 220 repeaters in the area that are currently not used heavily. They're "out there now" and not used.

The thing that I think a North Coast 220 repeater would have going for it far and above other 220 repeaters in the area is that it is a North Coast repeater, and as such could easily be linked to the North Coast 145.29 repeater. If the two machines were linked, Novices and other 220 operators would find a friendly group waiting for them on 220 just like there is on 5.29. Initially the two machines would be linked full time; eventually the two machines would be separate, to be linked together on special occasions such as public service events, nets, Teleconference Radio nets, code practice, etc.

A valid argument can be made that not nearly as many people have 220 rigs as have two meter rigs. Very true! But, there is a point to be made about the current situation of the 220 repeaters: the chicken and egg syndrome-there aren't many people to talk to so why should I get a rig? / Not many people have 220 rigs so there aren't many people to talk to! Several people have told me that the situation on 220 is not unlike that of certain two meters repeaters in the Cleveland area; if you call and announce your presence, you're ignored if you aren't part of "the IN group". If that's what is waiting for me on 220, why should I invest money in a 220 rig when if I want to get ignored I can do that easily on two meters. North Coast has something different to offer to the 220 band: the "personality" or "magic" that has developed around the 5.29 repeater.

A 220 machine is an ideal place to put experiments, such as a super computer based repeater controller that I've been dreaming up during the last few months. Others have spoken of hooking links to 10 meters when the band is open. Still others have talked of broadcasting audio from space shuttle missions, etc.

The cost! Well, putting a 220 repeater on the air certainly won't be free. The biggest cost will be a duplexer, costing in the neighborhood of \$550.00. Certainly not peanuts. Can North Coast afford it? Not really. The budget has been balanced very carefully by the finance committee so that the club can live within its means. There are fund raising efforts underway, but my personal feeling is that revenues from that should go towards paying off the 5.29 repeater; that debt has been around a long time and I would sure like to see it off the club's collective back. But, I also feel that the club really ought to have a presence on 220, made all the more urgent by the recent Novice enhancement and spectrum theft attempt by the FCC. What I propose is that we as North Coasters get the North Coast 220 repeater project off the ground the same way the 5.29 repeater was; out of our pockets. I feel that this is important enough that my check for \$25.00 for the purchase of equipment for a 220 repeater will have been received by the club treasurer by the time you read this article. Well, that's 1/22 of the amount needed out of the way. How about it; are there 21 others out there who believe in a 220 machine enough to fork over 25 tax deductible dollars? I sure hope there are, and I'm reasonably certain there are, or I'm badly mistaken about the kind of club North Coast is.

The rest of the repeater can be purchased inexpensively, or scrounged, or donated. Any club member have a Midland 13-509 laying around in the closet unused? If so get a tax deduction for it and hear it get some use as a repeater. Contact Tom N8FQQ if you do have one available.

Put it this way; the way things are right now I have no incentive to go out and buy a 220 radio based on what others have been telling me about the band and the lack of use of the repeaters that are out there now. But, if North Coast has a 220 repeater out there, and it was linked to the 5.29 repeater a great deal of the time (at least at first) including say 11:00 P.M. until 8:00 A.M. I would have a lot more incentive to get a 220 radio. Once I've gotten the radio, I'm sure I'll find lots of other uses for it such as 220 packet, operating remote bases, etc. There is also a lot more gear available for 220 that there EVER has been before; nice stuff. I plan to get an Icom 38A; same accessories as my Icom 28A, and (maybe someday) 48A.

I sure hope there are 21 like hearted souls in this club! Send your contribution to the clubs P.O. Box (30529, Cleveland, Ohio 44130) and be sure to mark it FOR USE TOWARDS THE PURCHASE OF EQUIPMENT FOR A NORTH COAST ARC 220 MHz REPEATER ONLY!! Very important that phrase, for without it your contribution will get lumped into the Club's general operating budget. With that phrase, the club is legally (and morally) bound to use your contribution ONLY for the purpose you intended, or return your contribution to you.

Hope to hear you soon on North Coast's 220 repeater.

MINUTES OF THE SUMMER OHIO PACKET COUNCIL MEETING

The following was downloaded from the KB8CI Packet Bulletin Board System.

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Msg# TR  Size To      From @ BBS  Date      Title
6700 BF  3526 ALL      W8BK0  OPAC    0824/1130 Minutes of August Meeting ...
R:870822/0246z @:AD8I #22873 [The OHIO GateWay]
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MINUTES

Ohio Packet Council Meeting
Warren, Ohio -- August 16, 1987

This combined general membership and Board of Trustees meeting was held in conjunction with the Warren Hamfest in Area Code Region 216. The meeting was called to order by AD8I at 1:05 p.m. and opened with a round of introductions. The following OPAC officials were among the 24 attendees:

AD8I	Joe Subich	President
W8BK0	Bob Adams	Secretary
K4ZLE	Jay Slough	Treasurer
KB8CI	Tom Kryza	216 Area Director

The minutes of the previous meeting (May 30) were unanimously approved as posted on the bulletin board system.

K4ZLE reported a treasury balance of slightly over \$200.00. In accordance with our Regulations, an Audit Committee will be named to prepare a report for our Annual Meeting in November.

N8GNJ and KB8CI reported on the progress of OHIONET in Northeastern Ohio. A letter outlining the purpose and needs of OHIONET has been prepared and distributed to all identified sources of potential assistance, including financial, site identification, and node operation. To date, the response has been slow. Copies of the letter were available.

A general discussion of OHIONET (its purpose, operation, and advantages) followed. There is a definite need to remove BBS- forwarding activities from 145.01 to relieve the congestion on that frequency and provide cleaner and more efficient paths throughout the State (and interconnecting with adjacent areas) for mail forwarding and emergency communications.

AD8I gave a brief run-down of OHIONET progress in other areas of the State. Currently, the western half of the State appears to be progressing more rapidly.

It was pointed out that, as packet continues to grow in Ohio, there will probably be a need for some sort of frequency coordination, or at least an organized plan for the efficient utilization of packet frequencies throughout the State. OPAC needs to begin to formulate guidelines for this development. For example, how can the packet frequencies best be utilized to accommodate several bulletin board systems in one LAN to minimize congestion without undue interference with packet activities in adjacent LAN's. We need to insure that all forms of packet activity have an opportunity to develop with the least possible conflict. This will require consensus and cooperation. The OPAC officers will welcome any and all suggestions in the development of guidelines.

The general features and advantages of NETROM were outlined. An isolated NETROM node has little value, but it has definite advantages in a coordinated network.

N8GNJ had suggested, at the May meeting, that [OPAC] affiliate with Packet Radio Magazine. Since that time, FADCA [Florida Amateur Digital Communications Association- ed] has decided to cease publication of PRM. It is possible that some other organization will continue or absorb the PRM concept. We will have to wait and see what happens. Our possible participation can be considered as we discuss our 1988 dues structure at our Annual Meeting.

The Annual Meeting is scheduled for 10:00 a.m., November 14, 1987, in Room D of the Red Cross Chapter House, 995 East Broad, Columbus, Ohio.

There being no further business, the meeting was adjourned at 2:00 p.m.

Robert R. Adams, W8BK0
Secretary

EXCERPT FROM COMPUSERVE'S ELECTRONIC EDITION OF W5YI REPORT

Downloaded from the CompuServe Information Service

[Due to space and budget limitations, bulletins such as W5YI, Gateway, ARRL bulletins, etc. will no longer appear as a regular feature in the Communicator. However, when there is topic of particular interest to the club (in the editor's opinion) such as the following excerpt, I will attempt to reprint it.- Ed]

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:: THE W5YI REPORT ::
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:: D i t s & B i t s ::
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:: Vol 9 #16 --- 08/15/87 ::
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:: HamNet Electronic Edition ::
:: CompuServe's Ham/SWL Forum ::
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HamNet thanks Fred Maia, W5YI, for permission to excerpt this Electronic Edition of his W5YI Report. The full ten-page biweekly newsletter is available by mail for \$21 per year from Fred at Dept. C, PO Box 10101, Dallas, TX 75207. Samples available for a 2 stamp large SASE.

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W5YI has developed a complete Novice Package that enables an Amateur Radio operator candidate to learn everything
necessary to obtain a ham ticket without formal classroom training. Kit contains 3 manuals, 2 code tapes, telegraph
key, tone oscillator, battery...and more! Satisfaction guaranteed or your money back! Same Day Shipping! Price:
$21.95+$2.40 postage. W5YI-VEC, PO Box 10101-N, Dallas, TX 75207.

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Do you have Amateur Radio news to contribute to The W5YI Report? If so, please call (817) 461-6443 and leave a message on Fred's recorder!

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Radio Shack Entry into Ham Radio

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Radio Shack has introduced a new Novice Voice Class package. The package is pictured on Page 97 in full color in the 1988 catalog which has yet to be distributed to the stores. This is a "library page" of all Radio Shack publications. We were pleased to note the "New for 88" logo and the largest space devoted to it of any book in the preferred right hand upper corner of the page. Forty million catalogs will be distributed. Radio Shack's book buyer is Leon R. Lutz, WB5IUW.

The Novice package is now in the process of being shipped by the publisher to the Radio Shack warehouse in Ft. Worth, Texas. They should have it within a few weeks. It consists of a fully illustrated textbook, two code learning tapes, a form 610 application...in a printed plastic binder. Radio Shack item No. 62-2402, \$19.95 retail.

Offer to Text New Novice Candidates

Now that this Novice training package is published -- and will shortly be in all Radio Shack stores, we need your assistance in testing applicants that purchase the package. Here is how you can help!

Contact your local Radio Shack store manager and offer your assistance in conducting Novice examinations of applicants that study the package. Remember that it takes two volunteer examiners of at least a General class level to hold a Novice test session. It is our goal to have Novice testing immediately available to every Radio Shack store that gets an inquiry on where testing might be available.

This is an excellent project for ham clubs to participate in. This newsletter [The W5YI Report- Ed] is not copyrighted and appears in numerous newsletters and on various packet, RTTY, CompuServe's "HamNet" and other networks. Please give this request the widest possible distribution. Put out the word that Novice VE teams are needed! We certainly do not want Novice applicants studying the package and then not be able to be tested!

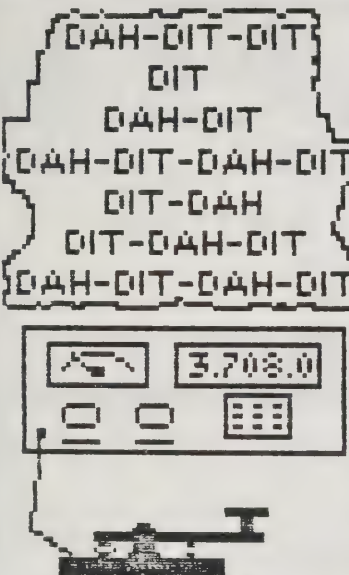
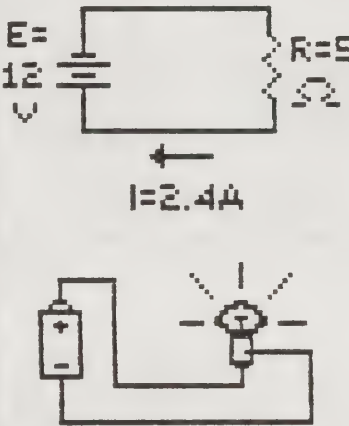
Although the Novice package contains all of the questions/answers and test preparation instructions, we will make copies of properly constructed Novice tests available to any General Class Amateur at no cost. An SASE would be appreciated, however.

After the written examination, all that the test team need do is administer a five minute, 5 word-per-minute cost test that contains all letters, numerals, punctuation (period, comma, question mark) and operating prosigns (AR, SK, BT and DN). Twenty five characters in a row passes -- as does answering seven out of ten questions about the text.

Send the successful Novice completed Form 610's to us to check and we will forward to the FCC. Every Radio Shack Novice Voice Class package has a Form 610 application included but more are available from us. No cost (except for an SASE) if you need a few extra. One of the reasons we would like to have the Novice Form 610 applications sent here is to gauge the success of the Novice testing program. The Form 610 should not be ordered from the FCC since they do not have suitable versions available. Keep up posted on your contacts with Radio Shack stores.

We also have our own version of the Novice Voice Class package available. \$19.95 (plus \$2.00 shipping). Special Novice classroom \$13.95 rate for four or more copies.

Let us help you obtain your Amateur Radio License

	<p>THE NORTH COAST AMATEUR RADIO CLUB WOULD LIKE TO INVITE YOU TO JOIN US IN OUR CODE AND THEORY COURSE TO OBTAIN YOUR AMATEUR RADIO LICENSE.</p> <p>Novice Technician General</p>	<p>OHM'S LAW</p> $I = E / R$ 
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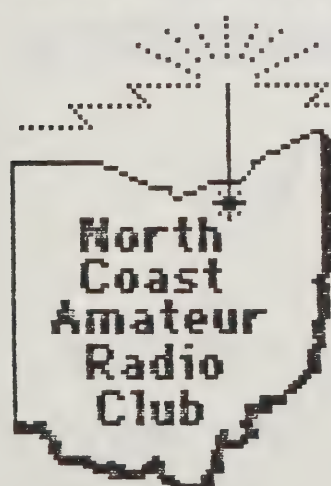
Where **8** N. Olmsted High School
5755 Burns Road

When **8** Wed. 9/30 for 15 wks.

Time **8** 7:30 to 9:30 p.m.

Cost **8** \$17.50 + book

For more information call :



Ray Maskow, W08MHL
671-0317

-or-

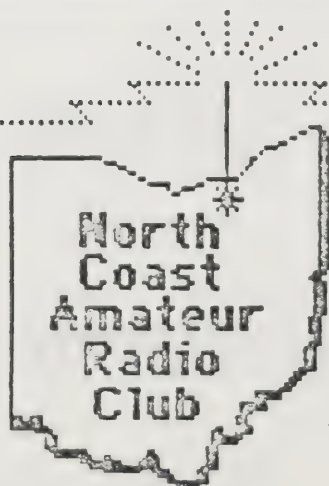
Pauline Wells, KA8FOE
779-8999

North Coast A.R.C. 1987 Amateur Radio License Examinations

When: 1 pm Sat. 6/13, 8/8, 10/10, 12/12
Where: N Olmsted Comm. Cabin
(map on reverse side)
Elements: 1A-4B (Novice-Extra)
Walk-ins: Allowed
Talk-in: 145.29 repeater

Needed :

1. ORIGINAL FCC LICENSE, IF ANY
 2. ONE COPY OF YOUR FCC LICENSE, IF ANY
 3. ORIGINAL CERTIFICATE OF SUCCESSFUL COMPLETION OF EXAMINATION (CSCE), IF ANY
 4. ONE COPY OF CSCE, IF ANY
 5. ORIGINAL FCC COMMERCIAL RADIOTELEGRAPH LICENSE, IF ANY (FOR 20 WPM CODE CREDIT)
 6. ONE FORM OF IDENTIFICATION (DRIVERS LICENSE, BIRTH CERTIFICATE, PASSPORT OR A LIBRARY CARD)
 7. \$4.35 CHECK OR M.O. PAYABLE TO: ARRL/VEC
 8. FCC FORM 610
 9. PENCILS AND/OR PENS
-



FOR MORE INFORMATION, CONTACT :

DAN SARAMA, KB8A
15591 RADEMAKER BLVD.
BROOKPARK, OHIO 44142
267-5083

PAULINE WELLS, KA8FOE
5355 BURNS ROAD
NORTH OLMS TED, OHIO 44070
773-8333

NORTH COAST AMATEUR RADIO CLUB MAP

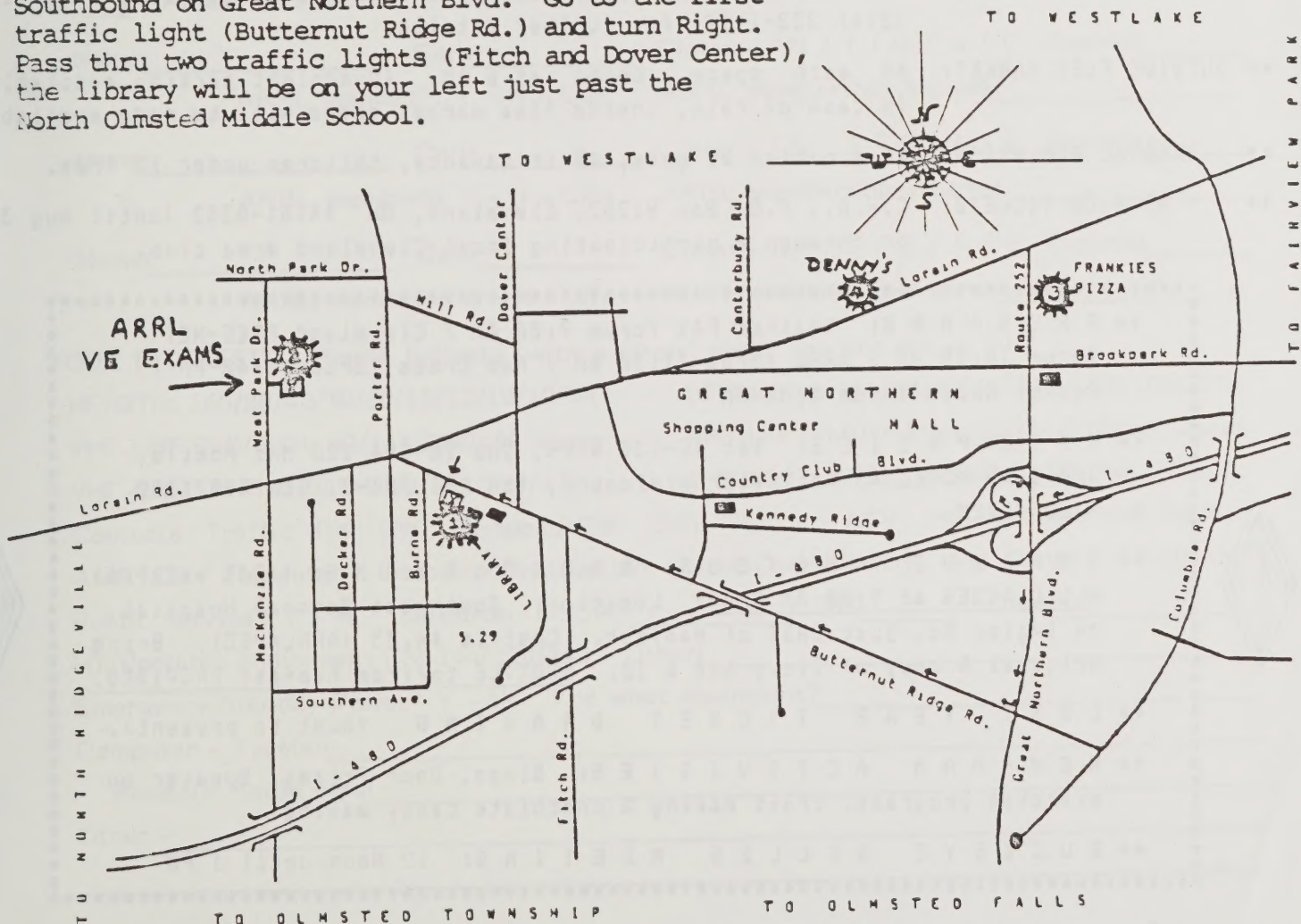
- Location 1. NCARC General meetings (1st Thursday each month at 7:30 PM.
NCARC "Fox Hunt" Hunters get ready (2nd Saturday each month) at 6:50 PM.
Cuyahoga County Public Library, 27425 Butternut Ridge Rd., North Olmsted.
- Location 2. North Coast Amateur Radio Club ARRL VE Amateur Radio Examinations.
North Olmsted Community Cabin, North Olmsted Park.
- Location 3. This is where all of the participants in NCARC Fox Hunts go after the hunt.
Frankie's Pizza, 4641 Great Northern Blvd, N. Olmsted.
- Location 4. NCARC Board meetings (generally at 6:00 PM prior to general meetings)
Denny's Restaurant, 25912 Lorain Ave., N. Olmsted.

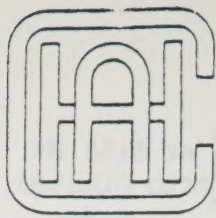
HOW TO GET TO THE NCARC GENERAL MEETINGS FROM I-71

Take I-480 Westbound. If Southbound I-71 (from Cleveland), the exit after W.150th is Airport/I-480 Westbound (LEFT THREE LANES OF I-71). Once you are off of I-71, The right lane leads you to Westbound I-480.

If Northbound I-71 (from Strongsville), the exit after Snow Rd. serves both East and Westbound I-480 (RIGHT TWO LANES OF I-71). The left one of the two most right lanes leads you to West I-480.

You will go pass the Grayton, Clague, and Great Northern Exits. Immediately after the Great Northern Exit, get off at the ROUTE 252 SOUTH - OLMSTED FALLS exit. This will take you Southbound on Great Northern Blvd. Go to the first traffic light (Butternut Ridge Rd.) and turn Right. Pass thru two traffic lights (Fitch and Dover Center), the library will be on your left just past the North Olmsted Middle School.





CLEVELAND HAMFEST ASSOCIATION

Proudly presents the 1987

Cleveland Hamfest Awards Banquet

SATURDAY, SEPTEMBER 26, 1987 - Cash Bar at 6 PM, Dinner at 7 PM, Master of Ceremonies: Cleveland radio personality, Ted Alexander, KBVPL, of WNCX/WERE. Guest Speaker: Earl J. Neff, noted local UFOlogist. Location: Holiday Inn (Airport South - Bagley and Engle Roads), Middleburg Heights, Ohio...one block west of the I-71 and Bagley Road interchange...north from Ohio Turnpike; south from I-480. Reservations call: Nan Kersten, NBHSE, at (216) 221-6740.

Cleveland Hamfest & Computer Show

SUNDAY, SEPTEMBER 27, 1987 - 8 AM to 4 PM - Cuyahoga County Fairgrounds, Berea, Ohio. Mobile Check-in on 146.52 from 6 AM until 12 Noon, check-in number used for prizes.

** INSIDE VENDOR SPACE: \$10 first 8' table & 2 chairs, \$8 for additional 8'. Set-up Sun. 6 AM (indoor security provided).

CONTACT: Marion Hill, WA8GZC, 8384 Barton Dr., Strongsville, OH 44136, (216) 238-1152, for further details.

** OUTSIDE FLEA MARKET: \$4 each space. Opens at 6 AM. (Overnight parking available). In case of rain, inside flea market space will be made available.

** GENERAL ADMISSION: \$4 donation at gate, \$3 in advance, children under 12 free.

** ADVANCE TICKETS: C.H.A., P.O. Box 81252, Cleveland, OH 44181-0252 (until Aug 31), or through a participating local Cleveland area club.

** P R O G R A M S: Weather FAX forum 9:00 AM / Cleveland FREE-NET forum 10:15 AM / ARRL forum 11:30 AM / Red Cross forum 12:40 PM / Packet Radio forum 1:50 PM
** M A I N P R I Z E S: 1st IC-735 W/PS, 2nd IC-38A 220 MHz Mobile, 3rd BIRD MODEL 43 Wattmeter w/element, 4th MFJ TNC-2, 5th 300/1200 BAUD MODEM.
** A R R L / V E A M A T E U R R A D I O E X A M S: (100% walk-in) ALL CLASSES at 9:00 AM SHARP Location: Southwest General Hospital, on Bagley Rd. just EAST of Hamfest. Cost is \$4.35 (ARRL/VEC). Bring original & copy of lic., 610 & ID. SHUTTLE to/from hamfest PROVIDED.
** L A S T Y E A R T I C K E T D R A W I N G (must be present).
** N O N - H A M A C T I V I T I E S: Bingo, Door Prizes, Speaker on exercise programs, craft making & chocolate candy making.
** B U C K E Y E B E L L E S M E E T I N G: 12 Noon until 1 PM

For additional information, call: Don Ritchie, KBZGW, at (216) 731-3030.

NORTH COAST AMATEUR RADIO CLUB, P.O. Box 30529, Cleveland, Ohio 44130

Membership Application / Renewal Information

- A. ____ INDIVIDUAL MEMBERSHIP - - \$12.00 annually (July 1 thru June 30).
(New members may prorate at \$1.00 per month)

Date: _____ Call: _____ Class: - / N / T / G / A / E Expires: _____

Name: _____ Ph: _____ Unlisted? Y - N OK on roster? Y - N

Address: _____ Apartment _____

City: _____ State: _____ ZIP: _____ -

Your preferred First Name (Handle) to be shown on the NCARC Roster: _____

ARRL member?: Y - N - Life ARRL membership expires: _____

- B. ____ FAMILY MEMBER/S - - \$1.00 annually each (July 1 thru June 30).

Name: _____ Call: _____ Class: - / N / T / G / A / E Expires: _____

ARRL member?: Y - N - Life ARRL membership expires: _____

Name: _____ Call: _____ Class: - / N / T / G / A / E Expires: _____

ARRL member?: Y - N - Life ARRL membership expires: _____

Name: _____ Call: _____ Class: - / N / T / G / A / E Expires: _____

ARRL member?: Y - N - Life ARRL membership expires: _____

YOUR INTERESTS - Please indicate (with a circle) areas you are active in:

HF/QTH: 160/80/40/30/20/15/12/10/10FM HF/Mobile: 160/80/40/30/20/15/12/10/10FM

VHF-UHF(FM)/QTH: 50/144/220/440/above VHF-UHF(FM)/Mobile: 50/144/220/440/above

VHF-UHF(CW-SSB)/QTH: 50/144/220/432 VHF-UHF(CW-SSB)/Mobile: 50/144/220/432

Contests Traffic DX CW Hi-Speed/CW SSB RTTY ATV HF-Packet VHF-Packet

AMATOR Repeater Education/Instruction: Morse-Code Theory Net Control Field Day

Public Service? Y - N Satellite: OSCAR _____ RS _____ Other _____

HT/Portable equipment: FM 144/220/440 Other: _____

Emergency Standby Power? Y - N For what equipment? _____

Computer - Type(s): _____

Amateur Radio uses: _____

Other - _____

NORTH COAST AMATEUR RADIO CLUB - 1987 CALENDAR YEAR

OFFICERS

President.....Tim Hitesman NR8T.....871-3055
Vice President..Bob Mills K8TTZ.....431-9492
Treasurer.....Jim Nestor N8GJR....1-355-8697
Secretary.....Dave Hoffman KA8ZRG...835-8275

POSITIONS

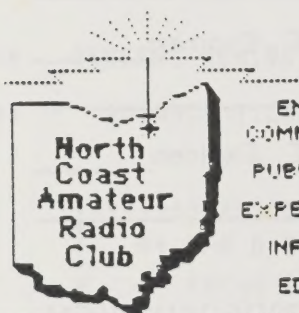
ARRL Club Liason.... Rick K8SCI.....779-8999
ARRL VE Liason.....Dan KB8A.....267-5083
Awards.....Fred WB8UDA.....Unlisted
Contest.....Dave KB8TT.....942-5030
Newsletter Editor....Steve N8GNJ....1-365-2793
Education.....Ray WD8MHL.....671-0317
Field Day.....Ron KB8BEB.....235-2882
Rick K8SCI and Ray WD8MHL
Finance.....Mike K9SSL.....225-1744
Membership.....Pauline KA8FOE...779-8999
NCARES.....Rick K8SCI.....779-8999
Net Coordinator.....Steve N8GNJ....1-365-2793
Programs.....VOLUNTEER NEEDED!!!
Public Relations....Steve NO8M.....777-1177
Refreshments.....Pauline KA8FOE...779-8999
Sunshine.....Pauline KA8FOE...779-8999
Technical.....Tom N8FQQ.....251-3080

TRUSTEES

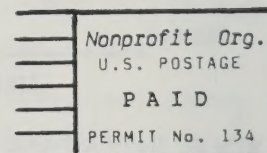
Dan N8ETQ.....845-5442
Tom KD8EX.....1-933-8753
Pauline KA8FOE.....779-8999
Steve N8GNJ.....1-365-2793
Dick WD8ISB.....467-7733
Steve WD8INO.....741-2547
Steve NO8M.....777-1177
Ray WD8MHL.....671-0317
Rick K8SCI.....779-8999

VOLUNTEER EXAMINERS

Dan KB8A.....267-5083
Dan WD8AJF.....1-748-2816
Pete W1BKZ.....951-9360
Dick KD8EQ.....235-2323
Heinz KC8F.....734-6890
Bob W8IO.....734-0570
Dick WD8ISB.....467-7733
Don KD8JQ.....1-723-5492
Dave AI8M.....1-324-4574
Steve NO8M.....777-1177
Mike K9SSL.....225-1744
Tim NR8T.....871-3055
Shirley KA8Y.....562-5858



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